

**STIC Database Tracking Number: 301384**

**To: JESSICA REIDEL**

**Location: RND-5E88**

**Art Unit: 3766**

**Friday, July 10, 2009**

**Case Serial Number: 10/620742**

**From: ETHEL LESLIE**

**Location: EIC3700**

**RND-8A20**

**Phone: (571)272-5992**

**ethel.leslie@uspto.gov**

**Search Notes**

Jessica,

Attached is the completed search for an interactive first-aid system.

I searched the inventors in the patent as well as non-patent literature and the results are included. I did an extensive search on the requested topic in a number of bibliographic and full-text databases as well as on the Internet. I found several items that I think might help you – they are marked with yellow highlighting. Please be sure to look over all the results as there may be other items of interest. I have included the search strategies used for the searches performed.

I hope you find this search helpful. If you have a moment, please fill out the STIC Feedback Form I will be sending you. ***We welcome your feedback and are particularly interested in learning if you use any of these references in an office action. If you have a moment, please let us know which references you use.***

If there is anything I can do to refine or revise this search, please let me know.

Sincerely,  
Ethel Leslie

**RUSH**

301384

**Solomon, Terrence**

**From:** JESSICA REIDEL [jessica.reidel@uspto.gov]  
**Sent:** Thursday, July 09, 2009 8:53 AM  
**To:** STIC-EIC3700  
**Subject:** Search Request, Case/Application No.: 10/620,742

Requester: **JESSICA REIDEL (P/3766)**  
Art Unit: **GROUP ART UNIT 3766**  
Employee Number: **81381**  
Office Location: **RND 5E88**  
Phone Number: **(571)272-2129**

Case/Application number: **10/620,742**  
Priority Filing Date: **7/16/2003**  
Format for Search Results: **Email**  
Is this a Board of Appeals case? **No, this is not a Board of Appeals case.**

Synonyms:

**diagram, figure, representation, display, picture, sketch, chart, map, drawing, illustration, depiction, photograph, image**

Describe this invention in your own words:

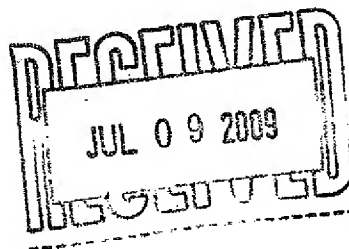
**a device displays a representation of a portion of a human body (either an entire human body, or a portion thereof such as the head or chest or a limb); a user (such as a doctor or EMT) selects a part of the representation of the portion of the human body; and the device presents first aid instructions or therapy directions (i.e. on a screen or audibly) or sounds an alarm based on the user's selection.**

Terms to avoid:

Additional comments:

**\* Please call me or e-mail me any questions you may have. THIS IS A RUSH REQUEST!! MY SPE WILL APPROVE VIA RESPONSE TO TERRANCE SOLOMAN.**

Attachment: No



7/9/09

A61N

## EIC SEARCH RESULTS

**Serial No. 10/620,742 – Interactive first aid information system**

Searcher: Ethel Leslie

Date: July 9 & 10, 2009

### Inventor Search

#### Search Strategy

Set	Items	Description
S1	13474	AU=(SULLIVAN J? OR SULLIVAN, J?)
S2	201	AU=(NOVA R? OR NOVA, R?)
S3	6378	AU=(OWEN J? OR OWEN, J?)
S4	1	S1 AND S2 AND S3
S5	15	S1:S3 AND (FIRST()AID OR (EMERGENCY OR IMMEDIAT? OR LIFESA- V??? OR LIFE() (SAVE? ? OR SAVING)) (2W) (AID OR TREAT? OR CARE - OR THERAP?))
S6	14	S5 NOT S4
S7	6	S6 FROM 350,347
S8	8	S6 NOT S7
S9	8	RD (unique items)
S10	360	(JOSEPH OR JOE OR JOEY OR JL OR J()L) (2W) SULLIVAN?
S11	118	(RICHARD OR RICK OR DICK OR RICH) (2W) NOVA? ?
S12	487	(JAMES OR JIM OR JIMMIE OR JIMMY) (2W) OWEN? ?
S13	6	S10:S12 AND (FIRST()AID OR (EMERGENCY OR IMMEDIAT? OR LIFE- SAV??? OR LIFE() (SAVE? ? OR SAVING)) (2W) (AID OR TREAT? OR CARE OR THERAP?))
S14	5	S13 NOT (S4 OR S6)

File 350:Derwent WPIX 1963-2009/UD=200942

(c) 2009 Thomson Reuters

File 347:JAPIO Dec 1976-2009/Feb(Updated 090624)

(c) 2009 JPO & JAPIO

File 155:MEDLINE(R) 1950-2009/Jul 07

(c) format only 2009 Dialog

File 73:EMBASE 1974-2009/Jul 07

(c) 2009 Elsevier B.V.

File 5:Biosis Previews(R) 1926-2009/Jul W1

(c) 2009 The Thomson Corporation

File 8:Ei Compendex(R) 1884-2009/Jun W4

(c) 2009 Elsevier Eng. Info. Inc.

File 35:Dissertation Abs Online 1861-2009/Jun

(c) 2009 ProQuest Info&Learning

File 65:Inside Conferences 1993-2009/Jul 09

(c) 2009 BLDSC all rts. reserv.

File 15:ABI/Inform(R) 1971-2009/Jul 08

(c) 2009 ProQuest Info&Learning

File 47:Gale Group Magazine DB(TM) 1959-2009/Jun 26

(c) 2009 Gale/Cengage

## Search Results

4/25/1 (Item 1 from file: 350)  
 DIALOG(R)File 350: Derwent WPIX  
 (c) 2009 Thomson Reuters. All rights reserved.

0014763680 *Drawing available*  
 WPI Acc no: 2005-111338/200512  
 XRPX Acc No: N2005-096198

**First aid information provision method for treating patient with cardiac problem, low blood pressure, involves receiving selection of portion of displayed human body, and presenting first aid information as function of selection**

Patent Assignee: MEDTRONIC PHYSIO-CONTROL CORP (MEDT); NOVA R C (NOVA-I); OWEN J M (OWEN-I); SULLIVAN J L (SULL-I)

Inventor: **NOVA R C; OWEN J M; SULLIVAN J L**

Patent Family ( 2 patents, 106 countries )

Patent Number	Kind	Date	Update	Type
US 20050015115	A1	20050120	200512	B
WO 2005009536	A1	20050203	200512	E

Local Applications (no., kind, date): US 2003620742 A 20030716; WO 2004US22349 A 20040713  
 Priority Applications (no., kind, date): US 2003620742 A 20030716

### Alerting Abstract US A1

NOVELTY - The method involves displaying a diagram representing a portion of a human body, receiving selection of portion of the displayed human body, and presenting first aid information as a function of selection.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. first aid information providing device;
2. recorded medium storing first aid information provision program; and
3. first aid information providing system.

USE - For providing first aid information for treating patient with cardiac disease, low blood pressure, low blood sugar, heat exhaustion, stress, stroke, etc., in restaurant, sporting facilities, shopping mall and auditorium.

ADVANTAGE - The system obtains patient status information from sensors, without operator interruption, and applies new, improved and customized first aid procedures.

DESCRIPTION OF DRAWINGS - The figure shows a block diagram of the first aid system incorporated with defibrillator.

8 patient

10 first aid system

12 defibrillator

14,16 electrodes

18,20 conductors

7/25/1 (Item 1 from file: 350)  
 DIALOG(R)File 350: Derwent WPIX  
 (c) 2009 Thomson Reuters. All rights reserved.

0018744248 *Drawing available*  
 WPI Acc no: 2009-F25010/200915

**Defibrillator i.e. automated external defibrillator, for patient, has test leads electrically isolated from therapy delivery plate, and processor for determining whether defibrillation**

**electrode is in condition for performing measurement**

Patent Assignee: MEDTRONIC EMERGENCY RESPONSE (MEDT)

Inventor: COVEY K K; MCGRATH T J; **NOVA R C**; NYGAARD L R; SULLIVAN J L

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Update	Type
US 20090048636	A1	20090219	200915	B

Local Applications (no., kind, date): US 2008255914 A 20081022; US 2004865232 A 20040610

Priority Applications (no., kind, date): US 2004865232 A 20040610; US 2008255914 A 20081022

**Alerting Abstract US A1**

NOVELTY - The defibrillator (10) has an impedance measure module for measuring impedance between two test leads (111, 112) that are in electrical contact with a hydrogel bridge. The test leads are electrically isolated from a therapy delivery plate of a defibrillation electrode (74) for delivering electrical therapy, when the leads are coupled to the defibrillator. A processor determines whether the defibrillation electrode is in a condition for performing measurement. The processor receives an environmental condition datum from an environmental sensor.

USE - Defibrillator i.e. automated external defibrillator, for administering **life-saving defibrillation therapy** to a patient in a venue such as airport, health club and auditorium.

ADVANTAGE - The defibrillator has a pouch that is removably fastened to a defibrillator case, so that the pouch is easily replaceable. The defibrillator is ready to deliver therapeutic shock, so that the therapy can be delivered automatically or manually.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic view of a pouch, an electrode assembly and a test module.

10 Automated external defibrillator

16 Pouch

74 Defibrillation electrode

101 Test module

111, 112 Test leads

7/25/2 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0014612300 *Drawing available*

WPI Acc no: 2004-794273/200478

XRPX Acc No: N2004-625977

**Health care protocols managing method, involves receiving health care protocol from medical device, and updating another health care protocol based on former health care protocol**

Patent Assignee: NOVA R C (NOVA-I); SALVINO R J (SALV-I)

Inventor: **NOVA R C**; SALVINO R J

Patent Family ( 1 patents, 1 countries )

Patent Number	Kind	Date	Update	Type
US 20040214148	A1	20041028	200478	B

Local Applications (no., kind, date): US 2003464859 P 20030422; US 2004818016 A 20040405

Priority Applications (no., kind, date): US 2003464859 P 20030422; US 2004818016 A 20040405

**Alerting Abstract US A1**

NOVELTY - The method involves establishing a communication link with a medical device, and receiving a health care protocol from the medical device. Another health care protocol is updated based on the former health care protocol. An operator is presented with a task to be performed

pursuant to latter protocol. An acknowledgement of the task performed is received from the operator.  
DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- a. a computer-readable medium with instructions for causing a programmable processor to execute a method of managing health care protocols
- b. a system for managing health care protocols
- c. a medical device for method of managing health care protocols.

USE - Used for managing health care protocols with a medical device e.g. defibrillator and patient monitor, and an emergency medical technician.

ADVANTAGE - The method updates one health care protocol based on another health care protocol received from the medical device, thereby guiding an **emergency** medical personnel to a wide variety of emergencies, while helping the personnel to apply proper and current protocols that the personnel encounters.

DESCRIPTION OF DRAWINGS - The drawing shows a flow diagram illustrating a method of selecting a protocol and presentation of information pursuant to the selected protocol.

7/25/3 (Item 3 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0014096608 *Drawing available*

WPI Acc no: 2004-280317/200426

XRPX Acc No: N2004-222008

**Electrotherapy device for defibrillator, has processing circuitry to analyze signal data for feature indicative of cardiac pulse presence and to determine whether pulse is present based on feature**

Patent Assignee: MEDTRONIC PHYSIO-CONTROL MFG CORP (MEDT)

Inventor: HAMPTON D R; JAYNE C P; JOO T H; KELLY P F; LANK P; **NOVA R C**; O'HEARN P;

SALTZSTEIN W E; STICKNEY R E

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 20040039420	A1	20040226	200426	B

Local Applications (no., kind, date): US 2002229339 A 20020826

Priority Applications (no., kind, date): US 2002229339 A 20020826

#### Alerting Abstract US A1

NOVELTY - The device has an accelerometer configured for placement of a patients body to sense movement in the body due to a cardiac pulse and to produce an accelerometer signal data. A generator delivers electrotherapy to the patient. A processing circuitry analyzes the signal data for a feature indicative of cardiac pulse presence and determines whether the pulse is present based on the feature.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. a method of determining presence of cardiac pulse
2. a method of delivering electrotherapy.

USE - Used in a defibrillator for detecting the presence of a cardiac pulse to deliver therapy.

ADVANTAGE - The processing circuitry analyzes the signal data for the feature indicative of the cardiac pulse presence to determine whether the pulse is present based on the feature, thereby facilitating quick, accurate and automatic determination to prompt a caregiver to provide appropriate therapy in the **emergency** situation.

DESCRIPTION OF DRAWINGS - The drawing shows a graph of an electrocardiogram waveform for three consecutive heartbeats of a human patient.

7/25/4 (Item 4 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0014008639 *Drawing available*

WPI Acc no: 2004-190017/200418

XRAM Acc no: C2004-074862

XRPX Acc No: N2004-150761

**Communicating data between alarm system and portable medical device, by establishing communication link between the portable medical device and alarm system, and communicating triggering event and data via the communication link**

Patent Assignee: MEDTRONIC PHYSIO-CONTROL MFG CORP (MEDT)

Inventor: BERTAGNOLE S R; EIDE H; EL-ABBADY T Z; **NOVA R C**; SALTZSTEIN W E

Patent Family ( 4 patents, 103 countries )				
Patent Number	Kind	Date	Update	Type
US 20030212311	A1	20031113	200418	B
WO 2005011249	A1	20050203	200512	NCE
AU 2003304630	A1	20050214	200559	NCE
US 7120488	B2	20061010	200667	E

Local Applications (no., kind, date): US 2002141574 A 20020507; WO 2003US20506 A 20030627; AU 2003304630 A 20030627; WO 2003US20506 A 20030627; US 2002141574 A 20020507

Priority Applications (no., kind, date): US 2002141574 A 20020507; WO 2003US20506 A 20030627; AU 2003304630 A 20030627

#### **Alerting Abstract US A1**

NOVELTY - Communicating data between alarm system and portable medical device involves determining presence of triggering event, establishing communication link between portable medical device capable of delivering therapy and alarm system, communicating triggering event and data between portable medical device and alarm system via communication link and initiating response to triggering event.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a monitoring system comprising a therapy-delivering, portable medical device (200) having a communication interface and an alarm system.

USE - For communicating data between an alarm system and portable medical device for delivering therapy (claimed).

ADVANTAGE - The invention provides assistance in rendering quick and effective aid during emergencies, e.g. cardiac arrest. It provides more immediate medical attention without the need of a rescuer to spend valuable time requesting for **emergency aid** or to operate complicated medical devices to render aid.

DESCRIPTION OF DRAWINGS - The figure is schematic block diagram of a therapy-delivering, portable medical device triggering and/or communicating with an alarm system.

107, 141 Communication link

200 Portable medical device

7/25/5 (Item 5 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0013795170 *Drawing available*

WPI Acc no: 2003-895139/200382

XRPX Acc No: N2003-714187

**Energy adjusting circuit for biphasic defibrillator, has resistors coupled by couplers in circuit path of output port of defibrillation energy and control circuit, to absorb energy applied by defibrillator to patient**

Patent Assignee: MEDTRONIC PHYSIO-CONTROL MFG CORP (MEDT)

Inventor: DEBARDI G; **SULLIVAN J L**; VAN ESS D W

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 6539258	B1	20030325	200382	B

Local Applications (no., kind, date): US 2000684506 A 20001006

Priority Applications (no., kind, date): US 2000684506 A 20001006

#### **Alerting Abstract US B1**

NOVELTY - The energy adjusting circuit (50) has three resistors of which the resistors (R1,R2) are connected between respective output ports (35A,35B) of a defibrillation energy and control circuit (8) and circuit nodes, by the couplers (52A,52B). The other resistor (R3) is connected between the circuit nodes. The resistors absorb energy applied by defibrillator to a patient (16).

DESCRIPTION - An INDEPENDENT CLAIM is also included for defibrillation energy and control circuit.

USE - For use with cardiac biphasic defibrillator applying strong electric pulse to heart during ventricular fibrillation condition and in the field of **emergency treatment** personnel e.g. paramedics.

ADVANTAGE - Produces a low energy defibrillation waveform with an approximately fixed pulse width and a fixed tilt (droop) over an expected range of patient impedances.

DESCRIPTION OF DRAWINGS - The figure shows the schematic diagram of energy adjusting circuit.

8 defibrillation energy and control circuit

16 patient

50 energy adjusting circuit

35A,35B output ports

R1,R2 resistors

7/25/6 (Item 6 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0010577059 *Drawing available*

WPI Acc no: 2001-181577/200118

Related WPI Acc No: 1998-495572; 2000-292314; 2003-102000; 2004-387420

XRPX Acc No: N2001-129490

**External defibrillators used in hospitals, comprises charging system which charges energy storage capacitor to combined specific energy level range that is delivered to patient by H-bridge output circuit**

Patent Assignee: MEDTRONIC PHYSIO-CONTROL MFG CORP (MEDT)

Inventor: BORSCHOWA L A; **NOVA R C**; **SULLIVAN J L**

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 6175765	B1	20010116	200118	B

Local Applications (no., kind, date): US 1997811833 A 19970305; US 199835690 A 19980305; US



1999287483 A 19990406

Priority Applications (no., kind, date): US 1997811833 A 19970305; US 199835690 A 19980305; US 1999287483 A 19990406

#### **Alerting Abstract US B1**

**NOVELTY** - A charging circuit (18) charges capacitor (24) to combined energy level of 50-200 joules. H-bridge output circuit (14) delivers the energy to electrodes for applying to patient (16). Output circuit has switches (31-34) for coupling capacitor to electrodes to conduct energy to patient. A controller (20) controls output circuit switches to generate multiphasic defibrillation pulse for applying to patient.

**USE** - Used in hospitals by doctors and nurses, also used by **emergency treatment** personnel e.g. paramedics during life threatening medical conditions e.g. ventricular fibrillations.

**ADVANTAGE** - The output circuit allows external defibrillator to generate and apply high energy biphasic waveform to a patient. The H-bridge output circuit also allows an energy of more than 200 joules to be delivered to patient in biphasic waveform, thus resulting in greater certainty of the defibrillators effectiveness for a broader range of patients. The circuit also incorporates special driving circuitry to allow even low energy biphasic waveform less than 50 joules to be delivered to the patient.

**DESCRIPTION OF DRAWINGS** - The figure shows the block diagram of external defibrillator.

14 H-bridge output circuit

16 Patient

18 Charging circuit

20 Control circuit

24 Capacitor

31-34 Switches

?

## Foreign & International Patent Search

### Search Strategy

Set	Items	Description
S1	9430579	DISPLAY??? OR IMAGE OR IMAGES OR DIAGRAM? ? OR PICTURE? ? - OR PHOTO? ? OR ILLUSTRATION? OR MAP OR MAPS OR CHART? ? OR DR- AWING? OR DEPICT? OR PHOTOGRAPH OR PHOTOGRAPHS OR SNAPSHOT? OR SNAP()SHOT? ? OR GRAPHIC? ? OR FIGURE OR FIGURES OR REPRES- ENTATION? OR REPRESENT??? OR LIKENESS OR OUTLINE? ? OR PICTORIA- L? ?
S2	2986518	BODY? ? OR BODIES
S3	121749	S1(5N)S2
S4	28528	SELECT? OR CHOOSE? OR CHOSE OR CHOOSING OR CHOSEN OR CHOIC- E? OR PICK??? OR INDICAT? OR DESIGNAT? OR SPECIFY? OR SPECIFI- E? OR SPECIFICATION?
S5	25486	S2 (3N) (PART OR PARTS OR SECTION? ? OR AREA OR AREAS OR R- EGION? ? OR SECTOR? ? OR PORTION? ? OR SUBSECTION? OR ZONE OR ZONES)
S6	11977	HEAD OR CHEST OR LIMB? ? OR HEART OR TORSO OR TRUNK OR BRA- IN OR ARM OR ARMS OR LEG OR LEGS OR FOOT OR FEET OR ABDOMEN? ? OR ANATOMY OR ANATOMICAL? OR SKELETON OR SKELETAL
S7	1758	S4 (5N) S5:S6
S8	38	FIRST()AID OR (EMERGENCY OR IMMEDIAT? OR LIFESAV??? OR LIF- E() (SAVE? ? OR SAVING)) (2W) (AID OR TREAT? OR CARE OR THERAP?)
S9	9990	(PROVID? OR GIVE? ? OR GIVING OR STATE? ? OR STAGING OR PR- ESENT??? OR DISPLAY??? OR COMMUNICAT? OR DICTAT?) (3N) (INSTR- UCTION? OR DIRECTION? OR INFORMATION)
S10	6	(SUMMON? OR CALL??? OR CONTACT??? OR DIAL???) (3N) (EMERGENC- Y(2W) (SERVICE? ? OR PERSONNEL? OR NUMBER? ? OR ROOM) OR EMT OR 911 OR HOSPITAL? ? OR DOCTOR? ? OR ER)
S11	150	(ALARM??? OR ALERT???) (3N) (AUDIBL? OR VISIBL? OR VISUAL? OR SOUND??? OR SEE OR SEEING OR SEEN OR HEAR???)
S12	872	(DELIVER? OR ADMINIST? OR PROVID?) (5N) (TREAT? OR THERAP? OR ELECTRIC?()) (STIM OR STIMULATION) OR DEFRILLAT? OR ELECTROT- HERAP? OR AED OR CPR OR MEDICATION? OR MEDICAMENT? OR DRUG? ? OR PHARMACEUT? OR PHARMACOLOG? OR MEDICINE? ? OR INSULIN)
S13	12080	USER? ? OR INDIVIDUAL? ?
S14	151	EMT OR EMTS OR MEDIC? ? OR PARAMEDIC? ? OR PHYSIOTHERAPIST? OR FIRE?N OR FIREFIGHTER? OR POLICE? OR RESCUER? ? OR FIRST- ( )RESPONDER? OR FIRSTRESPONDER? OR (FIRE OR MEDICAL OR EMERGE- NCY OR LAW()ENFORCEMENT? OR SAFETY OR RESPONDING OR EMS) (2W) (PERSONNEL? OR OFFICIAL? ? OR OFFICER? ?)
S15	1309	DOCTOR? ? OR NURSE OR NURSES OR THERAPIST? OR CAREGIVER? OR CARE()GIVER? ? OR CLINICIAN? OR PRACTITIONER? OR PHYSICIAN? - OR SURGEON? ? OR DENTIST? ? OR VETERINARIAN? OR VET OR GP OR - G()P OR MD OR M()D
S16	977	S13:S15 (5N) (INSTRUCT? OR DIRECT? OR COACH? OR INFORM??? - OR TELL??? OR ADVIS??? OR NOTIFY? OR NOTIFI?)
S17	208	S7 (S) (S8:S12 OR S16)
S18	173	S3 (S) S7 (S) (S8:S12 OR S16)
S19	35	S17 NOT S18
S20	44	S8 OR S10
S21	42	S20 NOT S17
S22	338	S3 AND S7 AND (S8:S12 OR S16)
S23	128	S22 NOT (S17 OR S21)

S24 10519 IC=(A61B? OR A61C? OR A61D? OR A61M? OR A61F? OR A61N?)  
 S25 42 S23 AND S24  
 S26 594 S2(3N)(SEGMENT? ? OR SITE OR SITES)  
 S27 52 S4(5N)S26  
 S28 13 S27 AND (S8:S12 OR S16)  
 S29 8 S28 NOT (S17 OR S21 OR S25)

File 350:Derwent WPIX 1963-2009/UD=200942

(c) 2009 Thomson Reuters

File 347:JAPIO Dec 1976-2009/Feb(Updated 090624)

(c) 2009 JPO & JAPIO

## Search Results

18/25,K/41 (Item 41 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0014893299 *Drawing available*

WPI Acc no: 2005-241042/200525

Related WPI Acc No: 2005-241037

XRPX Acc No: N2005-198666

**Input providing method for insurance claims processing system, involves selecting body part on human body representation of graphic display, and receiving input selection via input selection information related to body part**

Patent Assignee: WAHLBIN S L (WAHL-I); WOODS R K (WOOD-I)

Inventor: WAHLBIN S L; WOODS R K

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 20050060205	A1	20050317	200525	B

Local Applications (no., kind, date): US 2003422632 A 20030902; US 2004790632 A 20040301

Priority Applications (no., kind, date): US 2003422632 A 20030902; US 2004790632 A 20040301

### **Alerting Abstract US A1**

**NOVELTY** - The method involves providing a graphical display having a human body representation, in an insurance claim processing system (10). A body part is selected on the representation, and input selection information related to the selected **body** part, is **displayed**. The **information** has a listing of injuries of subparts. An input selection is received via the information. The selection involves selecting an injury from the listing.

**DESCRIPTION** - **INDEPENDENT CLAIMS** are also included for the following:

- a carrier medium having program instructions that are executable to implement a method of providing input to an insurance claims processing system
- an insurance claim processing system.

**USE** - Used for providing input to an insurance claims processing system that is utilized for processing, evaluating, analyzing and estimating claims, in an insurance company that provides insurance coverage for trauma-induced bodily injuries e.g. loss of limbs, bone fractures, and head, neck, and/or spinal injury, to a customer.

**ADVANTAGE** - The method allows the insurance claims processing system to easily receive the input from a user, through graphical interface, for processing the claims.

**DESCRIPTION OF DRAWINGS** - The drawing shows a block diagram illustrating an architecture of an insurance claims processing system.

10Insurance claims processing system  
 30Memory  
 50Display screen  
 52Input devices  
 60Insurance claims processing program

**Claims:**a graphical display in an insurance claim processing system comprising at least one human body representation;selecting a body part on at least one human **body** representation;**displaying** input **selection information** related to the **selected body part**; andreceiving an input **selection** via the **displayed** input selection **information**;wherein the input selection information comprises a listing of at least one subpart.

18/25,K/42 (Item 42 from file: 350)

DIALOG(R)File 350: Derwent WPIX

\*\*\* current application \*\*\*

(c) 2009 Thomson Reuters. All rights reserved.

0014763680 *Drawing available*

WPI Acc no: 2005-111338/200512

XRPX Acc No: N2005-096198

**First aid information provision method for treating patient with cardiac problem, low blood pressure, involves receiving selection of portion of displayed human body, and presenting first aid information as function of selection**

Patent Assignee: MEDTRONIC PHYSIO-CONTROL CORP (MEDT); NOVA R C (NOVA-I); OWEN J M (OWEN-I); SULLIVAN J L (SULL-I)

Inventor: NOVA R C; OWEN J M; SULLIVAN J L

Patent Family ( 2 patents, 106 countries )				
Patent Number	Kind	Date	Update	Type
US 20050015115	A1	20050120	200512	B
WO 2005009536	A1	20050203	200512	E

Local Applications (no., kind, date): US 2003620742 A 20030716; WO 2004US22349 A 20040713

Priority Applications (no., kind, date): US 2003620742 A 20030716

#### Alerting Abstract US A1

NOVELTY - The method involves displaying a diagram representing a portion of a human body, receiving selection of portion of the displayed human body, and **presenting first aid information** as a function of selection.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. first aid information providing device;
2. recorded medium storing first aid information provision program; and
3. first aid information providing system.

USE - For providing first aid information for treating patient with cardiac disease, low blood pressure, low blood sugar, heat exhaustion, stress, stroke, etc., in restaurant, sporting facilities, shopping mall and auditorium.

ADVANTAGE - The system obtains patient status information from sensors, without operator interruption, and applies new, improved and customized first aid procedures.

DESCRIPTION OF DRAWINGS - The figure shows a block diagram of the first aid system incorporated with defibrillator.

8 patient

10 first aid system

12 defibrillator

14,16 electrodes

18,20 conductors

18/25,K/45 (Item 45 from file: 350)  
 DIALOG(R)File 350: Derwent WPIX  
 (c) 2009 Thomson Reuters. All rights reserved.

0014621554 *Drawing available*  
 WPI Acc no: 2004-803542/200479  
 XRPX Acc No: N2004-633402

**Insurance claim processing system input providing method, involves providing graphical display with human body representation in system, and displaying input selection information based on selected part to receive input selection**

Patent Assignee: DULOCK S C (DULO-I); WAHLBIN S L (WAHL-I)  
 Inventor: DULOCK S C; WAHLBIN S L

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 20040215494	A1	20041028	200479	B

Local Applications (no., kind, date): US 2003422450 A 20030424  
 Priority Applications (no., kind, date): US 2003422450 A 20030424

#### Alerting Abstract US A1

NOVELTY - The method involves providing a graphical display including a representation of a human body in an insurance claim processing system (10). A body part is selected from the representation of the body. Input selection information related to the selected part is displayed. The system receives an input selection with an injury code via the **information**. The **information** is **provided** in the display identifying one selected part.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- a. a carrier medium comprising program instructions that executable to implement a method of determining monetary amounts in an insurance processing system
- b. an insurance claim processing system.

USE - Used for providing input to an insurance claim processing system.

ADVANTAGE - The representation of the human body provides information regarding body parts, injury codes, common injuries, common treatments and/or treatment codes that is helpful in specifying insurance claim information.

DESCRIPTION OF DRAWINGS - The drawing shows a block diagram illustrating architecture of an insurance claims processing system.

10 Insurance claims processing system

20 Computer system

30 Memory

40 Insurance database

50 Display screen

18/25,K/46 (Item 46 from file: 350)  
 DIALOG(R)File 350: Derwent WPIX  
 (c) 2009 Thomson Reuters. All rights reserved.

0014596523 *Drawing available*  
 WPI Acc no: 2004-778489/200477

XRPX Acc No: N2004-613336

**Low frequency massage treatment machine has LCD which performs two-dimensional display of human body, or portion of human body, in several directions, to specify massage treatment region in human body**

Patent Assignee: KYUSHU HITACHI MAXELL KK (HITM)

Inventor: ABETA A; TOKITO M

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
JP 2004305580	A	20041104	200477	B

Local Applications (no., kind, date): JP 2003105657 A 20030409

Priority Applications (no., kind, date): JP 2003105657 A 20030409

#### Alerting Abstract JP A

NOVELTY - The machine has a liquid crystal display (LCD)(4) which performs two-dimensional **display** of a **human body**, or a **portion** of the **human body**, in several directions, according to the instructions received from a user, so as to **specify** the massage treatment **region** in the **human body**.

USE - Low frequency massage treatment machine.

ADVANTAGE - The massage treatment region in the human body, is specified in an efficient and effective manner.

DESCRIPTION OF DRAWINGS - The figures show the schematic diagrams of the liquid crystal display. (Drawing includes non-English language text).

4 LCD

81A,81B connection LED

82A,82B hyperthermia LED

18/25,K/49 (Item 49 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0014233662 *Drawing available*

WPI Acc no: 2004-419610/200439

XRPX Acc No: N2004-333060

**Diagnosis region indication method in treatment of e.g. paresthesia, involves displaying sequentially two-dimensional body templates illustrating view of external surface of human**

Patent Assignee: MEDTRONIC INC (MEDT); NORTH R B (NORT-I); SIERACKI J M (SIER-I)

Inventor: NORTH R B; SIERACKI J M

Patent Family ( 5 patents, 103 countries )				
Patent Number	Kind	Date	Update	Type
WO 2004041080	A2	20040521	200439	B
US 20040136578	A1	20040715	200447	E
AU 2003288959	A1	20040607	200469	E
US 7499048	B2	20090303	200917	E
US 20090063977	A1	20090305	200918	E

Local Applications (no., kind, date): WO 2003US34323 A 20031029; US 2002422261 P 20021031; US 2003503215 P 20030915; US 2003696491 A 20031029; AU 2003288959 A 20031029; US 2002422261 P 20021031; US 2003503215 P 20030915; US 2003696491 A 20031029; US 2002422261 P 20021031; US 2003503215 P 20030915; US 2003696491 A 20031029; US 2008269581 A 20081112

Priority Applications (no., kind, date): US 2002422261 P 20021031; US 2002422261 P 20021031; US 2003503215 P 20030915; US 2003503215 P 20030915; US 2003696491 A 20031029; US 2008269581 A 20081112

#### Alerting Abstract WO A2

NOVELTY - Several two-dimensional body templates are displayed sequentially according to commands received from user, illustrating a view of an external surface of a human body rotated at an angle about an axis.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

1. computer readable medium storing diagnosis region indication program;
2. diagnosis region indication device.

USE - For indicating diagnosis or treatment region of injury, pain, discoloration, paresthesia of patient, to physicians or clinicians.

ADVANTAGE - Sequential presentation of a series of body image templates, allows the user to remain better oriented with respect to body parts such as limbs. Improves orientation of the user by allowing user to control the direction and extent of orientation.

DESCRIPTION OF DRAWINGS - The figure shows the schematic view of the **body region indication** device.

60indication device

62display

64graphic user interface

66human body view template

68rotate left button

69rotate right button

72selection done button

74selection erase button

18/25,K/54 (Item 54 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0013797493 *Drawing available*

WPI Acc no: 2003-897494/200382

XRPX Acc No: N2003-716322

**Medical expert advice system for physicians, has user interface presenting coded information, accepting selections of presented information, and electronic medical record generator recording user selections into record**

Patent Assignee: DECODE GENETICS EHF (DECO-N)

Inventor: HELGASON I S; HELGASON R S; LOVE T J; SCHOPKA J H; SKULASON H

Patent Family ( 3 patents, 100 countries )				
Patent Number	Kind	Date	Update	Type
US 20030146942	A1	20030807	200382	B
WO 2003067503	A2	20030814	200382	E
AU 2003201147	A1	20030902	200425	E

Local Applications (no., kind, date): US 200271787 A 20020207; WO 20031B224 A 20030123; AU 2003201147 A 20030123

Priority Applications (no., kind, date): US 200271787 A 20020207

#### Alerting Abstract US A1

NOVELTY - The system has a graphical user interface (50) that presents coded medical information in

a logical hierarchy to a user and accepting selections of the presented information made by the user. An electronic medical record generator (54) responsive to the user interface and recording user selections into an electronic medical record.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- A. a computer program product for providing a graphical user interface to a touch sensitive screen
- B. a medical advice expert method
- C. a medical advice expert computer program product.

USE - Used for making medical records by physicians and supporting staff.

ADVANTAGE - The system automatically codes the medical informations into an electronic medical record system without any potential errors caused by misunderstanding of the transcriber, or typographical errors, or errors inherent in speech-to-text software.

DESCRIPTION OF DRAWINGS - The drawing shows a simplified block diagram of medical advice expert system.

6A Medical codes

50 Graphical user interface

52 Expert system

54 Electronic medical record generator

56 Test request generator.

**Original Abstracts:** be organized, for example, by physiological system, or by type of examination. The GUI includes an image of a body, from which a user can **select a body part** for examination, **examination method selection** controls, and one **or** more sets of buttons optimized for a touchscreen. Each button has a bulbous portion and a narrower label portion. The bulbous portion is large enough... into an electronic medical record. The logical hierarchy may be organized, for example, by physiological system, or by type of examination. The GUI includes an **image** of a body, from which a user can **select a body part** for examination, **examination method selection controls**, and **one or** more sets of buttons **optimized** for a touchscreen. Each button has a bulbous portion and a narrower label portion. The bulbous portion is large enough to be easily contacted with...

18/25,K/88 (Item 88 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0010542784 *Drawing available*

WPI Acc no: 2001-145795/200115

Related WPI Acc No: 2003-689323; 2007-481047

XRPX Acc No: N2001-106582

**Representation device for communication of medical information in computer involves storing medical data and displaying requested data showing spatial and dimensional relationship with other parts or sites of human body**

Patent Assignee: BENJA-ATHON A (BENJ-I)

Inventor: BENJA-ATHON A

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 6132218	A	20001017	200115	B

Local Applications (no., kind, date): US 1998191795 A 19981113

Priority Applications (no., kind, date): US 1998191795 A 19981113

**Alerting Abstract US A**

NOVELTY - A representation device comprises a memory unit and a display unit (3), the display can take place in a number of different anatomical planes, a way of defining the anatomical boundary and



position of each part and site (6,9,11,12,13,14), a way of relating each part and site to other parts and sites, and a device for storing and displaying the inherent and unique anatomical, physiological, neurological, neuro-anatomical and neuro-physiological adjacent parts and sites and distant parts and sites to other parts and sites. Also a way of assigning a unique identity to each part and site.

USE - The invention relates to a three-dimensional coordinate system of nomenclatures, names symbols and colors for identifying human body parts and sites for effective communication of medical information between any persons.

ADVANTAGE - This invention provides a tool for fast, easy, effective communication between any people including patients, physicians, and health care providers involving diseases, illnesses, disorders and pain.

DESCRIPTION OF DRAWINGS - The drawing shows a schematic view of the present invention.

2 Viewing screen

3 Computer or television

4 Lateral view

5 Posterior view

6,9,11,12,13,14 Parts and sites

**Claims:**a memory unit and a display unit; means for storing in the memory unit and selectively displaying on the display unit in a plurality of **anatomical** planes three dimensional **images** of **selected** human **body parts** and sites affected by at least one of disease, disorder and pain processes; means of defining the anatomical boundary of each part and site; means...

18/25,K/102 (Item 102 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0009215950

WPI Acc no: 1999-141710/199912

XRAM Acc no: C1999-041193

XRPX Acc No: N1999-102998

**Apparatus for delivering therapeutic agent to patient under computer control - generates image of patient's anatomy showing anatomical region to which agent is to be delivered**

Patent Assignee: LEMELSON J H (LEME-I)

Inventor: LEMELSON J H

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 5865744	A	19990202	199912	B

Local Applications (no., kind, date): US 1996714211 A 19960916

Priority Applications (no., kind, date): US 1996714211 A 19960916

#### Alerting Abstract US A

A therapeutic agent is delivered to a patient by a system which includes a computer and an injection needle. The needle is attached to a manipulator arm for supporting and operating the needle. A power drive moves the manipulator arm along multiple axes. The patient is supported on a surface which is power driven. A scanning system generates an image of select anatomical regions of the patient's body. It includes an ultrasonic pulse-echo transducer and an actuator for effecting relative movement between the support surface and imager under the control of the computer. Sensors determine the relative positions of the support, manipulator arm assembly, and scanner. Coded signals representing the sensed positions are fed to the computer. A first computer programme calculates the coordinates of **select body regions** defined by pixels of **images** produced by the scanner. A second programme calculates the coordinates of the injection needle and determines into which it is desired to deliver the agent.

USE - The method is used for **delivering** chemotherapeutic **drugs**, genetic material, and living cells introduced for transplantation, and other biological therapeutic agent requiring localisation to target

tissue. Suggested cellular transplants include liver cells and heart muscle cells.

ADVANTAGE - The system precisely **delivers** the **therapeutic** agents to a patient at **selected anatomical** locations.

**Documentation Abstract** ...support, manipulator arm assembly, and scanner. Coded signals representing the sensed positions are fed to the computer. A first computer programme calculates the coordinates of **select body regions** defined by pixels of **images** produced by the scanner... USE - The method is used for **delivering** chemotherapeutic **drugs**, genetic material, and living cells introduced for transplantation, and other biological therapeutic agent requiring localisation to target tissue... ADVANTAGE - The system precisely **delivers** the **therapeutic** agents to a patient at **selected anatomical** locations... A programme automatically controls operation of the injector causing it to inject a predetermined amount of the agent into the **select body region**.(PHP).

**Documentation Abstract Image** Original Publication Data by AuthorityArgentina**Publication No.** ...**Original Abstracts:**location coordinates with respect to a patient support means are calculated by the computer for each individual pixel making up the image. Location coordinates are **then** defined for a **select body region** corresponding to **pixels of the anatomical image(s) designated by a user of the system** to receive the therapeutic agent. The computer then operates a manipulator arm in order to position an injection tool such as an injection needle or catheter mounted on the arm adjacent to the **select body region**. In the **case of** an injection needle, the needle is inserted into the region at the appropriate depth, and an injector is operated under computer control to force a predetermined amount of a medium containing the therapeutic agent out of a lumen within the injection needle and into the **select body region**. > ...**Claims:**the manipulator arm assembly to controllably move said injection needle into select regions of the patient's body;a scanning system including an imaging device for generating image information of select anatomical regions of the patient's body;a plurality of sensors for sensing the relative positions of said patient support, said manipulator arm assembly, and said scanning imaging device, and generating and feeding coded signals representing the sensed positions to said computer;a first computer program for calculating location coordinates of select body regions defined by pixels of images produced by said scanning imaging device and using the coded signals representing the sensed relative positions of said patient support means and said imaging device; and a second computer program for calculating location coordinates of said injection needle and determining when said injection needle is located at said select body region into which it is desired to deliver a therapeutic agent.

18/25,K/111 (Item 111 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0008441342 *Drawing available*

WPI Acc no: 1997-020295/199702

XRPX Acc No: N1997-016915

**Physical therapy variable reconfiguration appts - uses interactive ailment-protocol selection interface contg screen display for displaying at least one of number of physical ailments of identified human body part**

Patent Assignee: CHATTANOOGA GROUP INC (CHAT-N); ENCORE MEDICAL ASSET CORP (ENCO-N)

Inventor: DUNLAY E R; DUNLAY R; JOHNSON A; JOHNSON D A; POHL J K; POHL K

Patent Family ( 10 patents, 68 countries )				
Patent Number	Kind	Date	Update	Type
US 5578060	A	19961126	199702	B
WO 1997000707	A1	19970109	199708	E
AU 199662859	A	19970122	199719	E
EP 777510	A1	19970611	199728	E
CA 2194777	C	20001121	200065	E
ES 2161202	T1	20011201	200203	E
EP 777510	B1	20040908	200459	E
DE 69633325	E	20041014	200468	E
ES 2161202	T3	20050416	200528	E
DE 69633325	T2	20050915	200560	E

Local Applications (no., kind, date): US 1995494095 A 19950623; WO 1996US10633 A 19960620; AU 199662859 A 19960620; EP 1996921716 A 19960620; WO 1996US10633 A 19960620; CA 2194777 A 19960620; WO 1996US10633 A 19960620; EP 1996921716 A 19960620; EP 1996921716 A 19960620; WO 1996US10633 A 19960620; DE 69633325 A 19960620; EP 1996921716 A 19960620; WO 1996US10633 A 19960620; EP 1996921716 A 19960620; DE 69633325 A 19960620; EP 1996921716 A 19960620; WO 1996US10633 A 19960620

Priority Applications (no., kind, date): US 1995494095 A 19950623

#### Alerting Abstract US A

The appts includes a screen display responsive to an ailment storage device for displaying identification data representative of at least one physical ailment for at least one of the predetermined human body parts. An ailment selecting device is operatively connected in electrical communication with the ailment storage device and responsive to operator selection of one of the physical ailments for which representative identification data is displayed.

The ailment selecting device can include a touch screen (38) which overlies the display screen (36). E.g. the operator (16) of the physical therapy appts (10) can select a physical ailment by touching the screen at a designated location. The ailment selecting device also includes a touch screen controller (40) responsive to the touch screen, for creating the X and Y coordinates which correspond to the location touched by the operator. The ailment selecting device includes a main controller (42) for determining the specific physical ailment selected by the operator.

USE/ADVANTAGE - As physical therapy appts for treating variety of physical ailments. Reduced number of specific operational parameters which operator must enter to configure therapy appts using interactive user interface for selecting ailment protocol.

**Original Abstracts:**at least one of the identification data representative of a plurality of physical ailments which are associated with at least one of the identified human **body areas**.An ailment **selector** is positioned in **electrical** communication with at least the memory device and being responsive to operator selection of one of the identified physical ailments which are associated with human... ... a transducer reconfigurer positioned in electrical communication with the transducer of the applicator and being responsive to the ailment selector for reconfiguring the transducer to **provide therapeutic treatment to the identified body** part according to the obtained transducer operational parameters... ... at least one of the identification data representative of a plurality of physical ailments which are associated with at least one of the identified human **body areas**. An ailment **selector** is positioned in electrical **communication with** at least **the** memory device and being responsive to operator selection of one of the identified physical ailments which **are** associated with human **body areas** for obtaining the associated transducer operational parameters. The apparatus further has a transducer reconfigurer positioned in electrical communication with the transducer of the applicator and being responsive to the ailment selector for reconfiguring the transducer to **provide therapeutic treatment to the identified body part according to the obtained** transducer operational parameters... ... at least one of the identification data representative of a plurality of physical ailments which are associated with at least one of the identified human **body**

**areas.** An ailment **selector** is positioned in electrical communication with at least the **memory device** and being **responsive** to operator **selection** of one of the identified physical ailments which are associated with human **body areas** for obtaining the associated transducer operational parameters. The apparatus further has a transducer reconfigurer positioned in electrical communication with the transducer of the applicator and being responsive to the ailment selector for reconfiguring the transducer to **provide therapeutic treatment** to the identified **body part** according to the obtained transducer operational parameters. > ...**Claims:** such that the associated physical therapy apparatus (10) is automatically reconfigured based upon the set of transducer operational parameters obtained by said ailment selecting means to provide therapeutic treatment to the identified body part according to the set of transducer operational parameters.... parameters of said transducer based upon the set of transducer operational parameters obtained by said ailment selecting means to provide therapeutic treatment to the identified body part according to the obtained transducer operational parameters.

18/5/171 (Item 32 from file: 347)  
 DIALOG(R) File 347: JAPIO  
 (c) 2009 JPO & JAPIO. All rights reserved.

03337140 \*\*Image available\*\*  
**ELECTRONIC MEDICAL DEVICE**

**Pub. No.:** 03-000040 [JP 3000040 A]  
**Published:** January 07, 1991 (19910107)  
**Inventor:** KATO AKIRA  
**Applicant:** KATO AKIRA [000000] (An Individual), JP (Japan)  
**Application No.:** 01-135462 [JP 89135462]  
**Filed:** May 29, 1989 (19890529)  
**International Class:** [ 5 ] A61B-005/00  
**JAPIO Class:** 28.2 (SANITATION -- Medical)  
**Journal:** Section: C, Section No. 813, Vol. 15, No. 100, Pg. 161, March 11, 1991 (19910311)

#### **ABSTRACT**

**PURPOSE:** To rapidly detect a proper diagnosing department and to predictively display a sickness cause by providing a mechanism to store medical information, e.g. the name of sickness, a sickness cause, a sickness comment, **emergency medical treatment**, in addition to a diagnosing department in a memory means and **display** and decide a human body whole **picture** or a human **body portion picture** for **specifying** an initial picture or an initial question item, and the condition of a patient.

**CONSTITUTION:** An electronic medical device comprises a key input means 2, a memory means 3, d display means 4, a deciding means 5, and an address specifying means 6. The memory means 3 is formed such that it contains a picture display data having a typical picture of a human body portion, a selected question item, a corresponding diagnosing department, other proper medical information, division data specifying the specified portion of the typical picture and a reply number to a selected question item, and a next item index data to provide an index by which transfer to e next question item is made or a corresponding diagnosing department and the condition of a patient are displayed, and a selective output is effected by specifying a first address. The display means 4 has a display part 7 formed with a proper display device, and a display drive part 8 to collectively or individually display flushing, a typical picture, and a question item.

21/25,K/22 (Item 22 from file: 350)  
 DIALOG(R) File 350: Derwent WPIX  
 (c) 2009 Thomson Reuters. All rights reserved.

0012649091 *Drawing available*  
 WPI Acc no: 2002-498464/200253  
 XRPX Acc No: N2002-394524

**Medical self-screening system for patients, includes computer with triage software to diagnose affected area in human body with specific symptoms and to provide appropriate treatment procedures**

Patent Assignee: CHIKOVANI O K (CHIK-I); DOBKIN W R (DOBK-I)

Inventor: CHIKOVANI O K; DOBKIN W R

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 6383135	B1	20020507	200253	B

Local Applications (no., kind, date): US 2000505974 A 20000216

Priority Applications (no., kind, date): US 2000505974 A 20000216

#### Alerting Abstract US B1

NOVELTY - A computer installed with a triage software generates and displays anatomical pictures (22) of the human body, from which an affected portion (23) is selected and its enlarged view is displayed. The specific affected area (26) on the enlarged view and the corresponding symptoms are processed for retrieving the appropriate course of action to be taken by the patient.

DESCRIPTION - An INDEPENDENT CLAIM is included for medical self-screening method.

USE - For enabling patients to self diagnose and obtain treatment of diseases.

ADVANTAGE - Provides emergency medical services and **immediate care** to patients, quickly.

Provides early diagnosis of diseases hence diseases are treated earlier and effectively thereby reducing cost and psychological stress of patients. Patients need not wait for appointment to meet physicians to evaluate their medical problems.

DESCRIPTION OF DRAWINGS - The figure shows the enlarged screen display of affected part of body in medical screening system.

22 Anatomical picture

23 Affected portion of human body

26 Specific affected area

21/25,K/25 (Item 25 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0009944829 *Drawing available*  
 WPI Acc no: 2000-246340/200021  
 XRPX Acc No: N2000-184233

**Training device for teaching emergency help techniques to a person in an emergency situation for a person with traumatic injuries or catastrophic cessation of heart activity or breathing**

Patent Assignee: KAZIMIROV J B (KAZI-I); KOBACOV J A (KOBAC-I); LUTAENKO V F (LUTA-I)

Inventor: KAZIMIROV J B; KAZIMIROV YU B; KOBACOV J A; LUTAENKO V F; PERFILEV S O

Patent Family ( 6 patents, 21 countries )				
Patent Number	Kind	Date	Update	Type
WO 2000008619	A1	20000217	200021	B
EP 1136970	A1	20010926	200157	E
RU 2176822	C2	20011210	200210	E
US 6638073	B1	20031028	200372	E
EP 1136970	B1	20040811	200452	E
DE 59910227	G	20040916	200461	E

Local Applications (no., kind, date): WO 1999RU252 A 19990723; EP 1999954551 A 19990723; WO 1999RU252 A 19990723; RU 1998114969 A 19980727; WO 1999RU252 A 19990723; US 2000509392 A 20000501; EP 1999954551 A 19990723; WO 1999RU252 A 19990723; DE 59910227 A 19990723; EP 1999954551 A 19990723; WO 1999RU252 A 19990723  
 Priority Applications (no., kind, date): RU 1998114969 A 19980727

#### Alerting Abstract WO A1

NOVELTY - A mold (1) of a person is connected to a teaching control process system with an anatomic display (7) equipped with a set (8) of video simulators of the internal organs. A device (10) protects students from cross-contamination and the simulators are controlled by a computer (9), while a defibrillator (106) is connected to a video simulator (107) and is equipped with paddle electrodes (108,109). The mold is equipped with a simulator with sensors for the vital activity of the internal organs and of trauma to them.

USE - Teaching **emergency aid** to persons in emergency situations for persons with traumatic injuries or heart or respiration failure.

ADVANTAGE - Expanded teaching programs under close to actual living conditions.

DESCRIPTION OF DRAWINGS - Drawing shows an overall view of a training device and its functional block circuit

1 Mold

7 Anatomic display

8 Video internal organ simulators

10 Protection device

9 Computer

107 Video simulator

108,109 Paddle electrodes

**Original Abstracts:**The present invention relates to a training device for teaching **emergency aid** techniques for a person in an **emergency situation, wherein** said device comprises a model (1) of a human being that includes the following units connected together so as to be capable of movement:

a... **Claims:**Training device for training **first-aid** measures for a person in an emergency situation, comprising a human dummy (1) with **the following** movably interconnected: a head unit (2), a neck unit (3) and a trunk unit (4) with upper and lower extremities (5 and 6, respectively), intraining device for teaching **emergency aid** techniques, comprising: a human model having a movable head unit, neck unit and body unit connected to each other, said body unit including upper and lower limbs; vital activity imitators provided **inside the** human model for simulating inner organ activity; external sensors provided on the human model for sensing external actions on the inner organs; an anatomical display...

21/25,K/35 (Item 35 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0000906855

WPI Acc no: 1975-B0187W/197504

**Panel for teaching first aid - has movable elements shaped to accord with outlines of parts of human body**

Patent Assignee: LAERDAL A S (LAER-I)

Inventor: LAERDAL A S

Patent Family ( 3 patents, 3 countries )				
Patent Number	Kind	Date	Update	Type
US 3859737	A	19750114	197504	B
GB 1413572	A	19751112	197546	E
CA 986296	A	19760330	197616	E

Local Applications (no., kind, date): US 1973325744 A 19730122  
 Priority Applications (no., kind, date): DE 197225917 U 19720712

#### Alerting Abstract US A

The object of the invention is to make available a device for teaching **first aid** measures which can be produced at comparatively low cost, does not occupy much space, and nevertheless provides the possibility of repeatedly practising the necessary manipulations. Some of the elements are movable in the manner in which the parts of the body they represent are moved during **first aid**. The elements are suitably planar, some may overlap and movable elements may be coupled. The elements can be movable parallel to the panel, but in another form they can be mounted to fold up from the panel.

**Original Abstracts:** A device for use in teaching **first aid** comprises a panel with a plurality of elements thereon which are shaped in accordance with the outline of parts of the human body. Some of the elements are movable in the manner in which the parts of the body they represent are moved during **first aid**. The elements are suitably planar, some may overlap and movable elements may be coupled. The elements can be movable parallel to the panel, but in another...

21/25,K/36 (Item 36 from file: 350)  
 DIALOG(R)File 350: Derwent WPIX  
 (c) 2009 Thomson Reuters. All rights reserved.

0000701639

WPI Acc no: 1974-B9033V/197418

**First aid instruction device - has sheet representing human body carrying superimposed movable elements for representing body manipulations**

Patent Assignee: LAERDAL A (LAER-I)

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
BE 808780	A	19740416	197418	B

Local Applications (no., kind, date): BE 808780 A 19731218

?

## Foreign & International Patent Search #2

### Search Strategy

Set	Items	Description
S1	47956	INTERACTIV? OR INTER() (ACTIVE? OR ACTIVIT???)
S2	9452580	DISPLAY??? OR IMAGE OR IMAGES OR DIAGRAM? ? OR PICTURE? ? - OR PHOTO? ? OR ILLUSTRATION? OR MAP OR MAPS OR CHART? ? OR DR- AWING? OR DEPICT? OR PHOTOGRAPH OR PHOTOGRAPHS OR SNAPSHOT? OR SNAP()SHOT? ? OR GRAPHIC? ? OR FIGURE OR FIGURES OR REPRES- ENTATION? OR REPRESENT??? OR LIKENESS OR OUTLINE? ? OR PICTORIA- L? ?
S3	3004182	BODY? ? OR BODIES OR ANATOM?
S4	68	S1(3N)S2(3N)S3
S5	8	S4/TI,DE
S6	60	S4 NOT S5
S7	4	S1 (10N) (FIRST()AID OR FIRSTAID? OR (EMERGENCY OR IMMEDIA- T? OR LIFESAV??? OR LIFE() (SAVE? ? OR SAVING)) (2W) (AID OR TRE- AT? OR CARE OR THERAP?))
S8	124173	S2(5N)S3
S9	28	S8 (S) (FIRST()AID OR FIRSTAID? OR (EMERGENCY OR IMMEDIAT? OR LIFESAV??? OR LIFE() (SAVE? ? OR SAVING)) (2W) (AID OR TREAT? OR CARE OR THERAP?))
S10	28	S9 NOT (S4 OR S7)
S11	541	S1(10N)S3
S12	1	S11 (S) (FIRST()AID OR FIRSTAID? OR (EMERGENCY OR IMMEDIAT? OR LIFESAV??? OR LIFE() (SAVE? ? OR SAVING)) (2W) (AID OR TREAT? OR CARE OR THERAP?))
S13	334	S1(7N) (TREAT? OR THERAP?)
S14	31	(S8 OR S11) AND S13
S15	30	S14 NOT (S4 OR S7 OR S10)

File 350:Derwent WPIX 1963-2009/UD=200943

(c) 2009 Thomson Reuters

File 347:JAPIO Dec 1976-2009/Mar(Updated 090708)

(c) 2009 JPO & JAPIO

### Search Results

6/25,K/45 (Item 45 from file: 350)

DIALOG(R)File 350: Derwent WPIX

(c) 2009 Thomson Reuters. All rights reserved.

0007776346 *Drawing available*

WPI Acc no: 1996-402086/199640

XRPX Acc No: N1996-338780

**Health monitoring system - tracks state of health of patient and compiles chronological health history of patient for storage in database**

Patent Assignee: BRIGHAM & WOMENS HOSPITAL (BGHM); GORDON G E (GORD-I); RAYMOND S A (RAYM-I); SINGER D B (SING-I)

Inventor: GORDON G E; RAYMOND S A; SINGER D B



Patent Family ( 12 patents, 61 countries )				
Patent Number	Kind	Date	Update	Type
WO 1996025877	A2	19960829	199640	B
AU 199653569	A	19960911	199651	E
WO 1996025877	A3	19961227	199713	E
US 5778882	A	19980714	199835	E
US 6095985	A	20000801	200039	E
US 6282441	B1	20010828	200151	E
US 20020032384	A1	20020314	200222	E
US 20020032385	A1	20020314	200222	E
US 6440069	B1	20020827	200259	E
US 6640134	B2	20031028	200372	E
US 20040087839	A1	20040506	200430	E
US 7273454	B2	20070925	200765	E

Local Applications (no., kind, date): WO 1996US2795 A 19960223; AU 199653569 A 19960223; WO 1996US2795 A 19960223 ; US 1995394157 A 19950224; US 1995394157 A 19950224; US 19971032 A 19971230; US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940128 A 20010827; US 1995394157 A 19950224 ; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940129 A 20010827; US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940128 A 20010827; US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940129 A 20010827; US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940129 A 20010827; US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940129 A 20010827; US 2003693232 A 20031024; US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940129 A 20010827; US 2003693232 A 20031024

Priority Applications (no., kind, date): US 1995394157 A 19950224; US 19971032 A 19971230; US 1999447986 A 19991123; US 2001940128 A 20010827; US 2001940129 A 20010827; US 2003693232 A 20031024

#### Alerting Abstract WO A2

The health monitoring system (100) uses a multi-parametric monitor (108) which periodically and automatically measures and records physiological data from sensors in contact with the patient's body. The data collected is not specifically related to a particular medical condition, but provides the information necessary to derive patterns which are characteristic of healthy patients as well as those who are ill. The data collected is periodically uploaded to a database (102) in which it is stored along with similar health histories for other patients. The monitor (108) is pref self-contained in a chest strap which is located on the patient's torso, and uses a controller which controls the sampling of the desired data and storage of data to local memory pending uploading to the database.

USE - Health tracking for assessing trends in health and

USE - diagnosing and monitoring medical conditions. System may be dynamically reconfigured to support different display modes.

**Claims:**device that allows data input by the subject and provides data prompts to the subject to selectively elicit particular information. the data prompts including an **interactive** graphical **display** with a **depiction** of a human **body**. various regions of which include data input means which allow the subject to provide a data input by designating one of said regions as being ...

(c) 2009 Thomson Reuters. All rights reserved.

0011231213 *Drawing available*

WPI Acc no: 2002-170658/200222

Related WPI Acc No: 2001-482515; 2004-345790

XRPX Acc No: N2002-129805

**Patient interactive neurostimulation system has patient interactive palm top computer which repeats data entry by patient when entered data fails to fall within consistency boundaries**

Patent Assignee: STIMSOFT INC (STIM-N)

Inventor: FOWLER K R; NORTH R B; SIERACKI J M

Patent Family ( 1 patents, 1 countries )				
Patent Number	Kind	Date	Update	Type
US 6308102	B1	20011023	200222	B

Local Applications (no., kind, date): US 1999408129 A 19990929

Priority Applications (no., kind, date): US 1999408129 A 19990929

#### **Alerting Abstract US B1**

NOVELTY - A computer presets consistency boundaries for data entered by patient. The data entry by the patient is repeated when entered data fails to fall within the consistency boundaries.

DESCRIPTION - An INDEPENDENT CLAIM is also included for neurostimulation controlling method.

USE - For automatic adjustment of neurostimulation implants used in pain therapy and in treating neurological dysfunction.

ADVANTAGE - Enables patient to be safely and confidently left alone to work with computer and provides reliable data without clinician's intervention, by effectively handling the inconsistent patient data entries, even during unexpected conditions such as hardware failures. Provides fully automated compact, self-contained system for easy transport and comfortable patient use. A robust, patient interactive protocol minimizing professional time and costs is offered. Allows practical screening of numerous stimulation settings. Computer analysis and digitized maps of pain and paresthesia provide precise detailed information to a physician and pertinent documentation of the outcome.

DESCRIPTION OF **DRAWINGS** - The **figures** respectively show **body drawing** screen and flowchart **diagram** of threshold task procedure algorithm.

**Original Abstracts:**The present invention is a fully automated computer controlled system for adjustment of neurostimulation implants used in pain therapy and in **treating** neurological dysfunction which includes a patient **interactive** computer, and a universal transmitter interface integrally embedded in the patient interactive computer, or built into the antenna which is capable of stimulating any type...

## NPL Database Search

### Search Strategy

Set	Items	Description
S1	25664239	DISPLAY??? OR IMAGE OR IMAGES OR DIAGRAM? ? OR PICTURE? ? - OR PHOTO? ? OR ILLUSTRATION? OR MAP OR MAPS OR CHART? ? OR DR- AWING? OR DEPICT??? OR DEPICTION? ? OR PHOTOGRAPH OR PHOTOGRA- PHS OR GRAPHIC? ? OR FIGURE OR FIGURES OR REPRESENTATION? OR - REPRESENT???
S2	7614613	BODY? ? OR BODIES OR ANATOM?
S3	175651	S1(5N)S2
S4	55226	SELECT? OR CHOOSE? OR CHOSE OR CHOOSING OR CHOSEN OR CHOIC- E? OR PICK??? OR INDICAT? OR DESIGNAT? OR SPECIFY? OR SPECIFI- E? OR SPECIFICATION?
S5	16842	S2 (3N) (PART OR PARTS OR SECTION? ? OR AREA OR AREAS OR R- EGION? ? OR SECTOR? ? OR PORTION? ? OR SUBSECTION? OR ZONE OR ZONES OR SITE OR SITES OR SEGMENT? ?)
S6	57460	HEAD OR CHEST OR LIMB? ? OR HEART OR TORSO OR TRUNK OR BRA- IN OR ARM OR ARMS OR LEG OR LEGS OR FOOT OR FEET OR ABDOMEN? ? OR SKELETON OR SKELETAL
S7	2333	S4 (5N) S5:S6
S8	755	FIRST()AID OR FIRSTAID? OR (EMERGENCY OR IMMEDIAT? OR LIFE- SAV??? OR LIFE() (SAVE? ? OR SAVING)) (2W) (AID OR TREAT? OR CARE OR THERAP?)
S9	14008	(PROVID? OR GIVE? ? OR GIVING OR STATE? ? OR STAGING OR PR- ESENT??? OR PRESENTATION? OR DISPLAY??? OR COMMUNICAT? OR DIC- TAT?) (3N) (INSTRUCTION? OR DIRECTION? OR INFORMATION)
S10	783	(SUMMON? OR CALL??? OR CONTACT??? OR DIAL??? OR TOUCH???) (- 3N) (EMERGENCY(2W) (SERVICE? ? OR PERSONNEL? OR NUMBER? ? OR RO- OM) OR EMT OR 911 OR HOSPITAL? ? OR DOCTOR? ? OR PHYSICIAN? OR NURSE OR CLINICIAN OR ER)
S11	3449	ALARM??? OR ALERT???
S12	7476	(DELIVER? OR ADMINIST? OR PROVID?) (5N) (TREAT? OR THERAP? OR ELECTRIC?()) (STIM OR STIMULATION) OR DEFRILLAT? OR ELECTROT- HERAP? OR AED OR CPR OR MEDICATION? OR MEDICAMENT? OR DRUG? ? OR PHARMACEUT? OR PHARMACOLOG? OR MEDICINE? ? OR INSULIN)
S13	31852	USER? ? OR INDIVIDUAL? ?
S14	4987	EMT OR EMTS OR MEDIC? ? OR PARAMEDIC? ? OR PHYSIOTHERAPIST? OR FIRE?N OR FIREFIGHTER? OR POLICE? OR RESCUER? ? OR FIRST- ( )RESPONDER? OR FIRSTRESPONDER? OR (FIRE OR MEDICAL OR EMERGE- NCY OR LAW()ENFORCEMENT? OR SAFETY OR RESPONDING OR EMS) (2W) (PERSONNEL? OR OFFICIAL? ? OR OFFICER? ?)
S15	24926	DOCTOR? ? OR NURSE OR NURSES OR THERAPIST? OR CAREGIVER? OR CARE()GIVER? ? OR CLINICIAN? OR PRACTITIONER? OR PHYSICIAN? - OR SURGEON? ? OR DENTIST? ? OR VETERINARIAN? OR VET OR GP OR - G()P OR MD OR M()D
S16	4413	S13:S15 (5N) (INSTRUCT? OR DIRECT? OR COACH? OR INFORM??? - OR TELL??? OR ADVIS??? OR NOTIFY? OR NOTIFI?)
S17	57	S3 (S) S7 (S) (S8:S12 OR S16)
S18	20	S17/2004:2006
S19	5	S17/2007:2009
S20	32	S17 NOT S18:S19
S21	23	RD (unique items)
S22	98	S7(S) (S8:S12 OR S16)
S23	25	S22/2004:2006

S24 15 S22/2007:2009  
 S25 26 S22 NOT (S20 OR S23:S24)  
 S26 22 RD (unique items)  
 S27 149 (INTERACTIV? OR INTER() (ACTIVE? OR ACTIVIT?)) (10N) (S8:S10  
 OR S12 OR S16)  
 S28 15 S27/2004:2006  
 S29 16 S27/2007:2009  
 S30 118 S27 NOT (S20 OR S25 OR S28:S29)  
 S31 72 RD (unique items)

File 155:MEDLINE(R) 1950-2009/Jul 08  
 (c) format only 2009 Dialog  
 File 73:EMBASE 1974-2009/Jul 08  
 (c) 2009 Elsevier B.V.  
 File 5:Biosis Previews(R) 1926-2009/Jul W1  
 (c) 2009 The Thomson Corporation  
 File 8:Ei Compendex(R) 1884-2009/Jun W4  
 (c) 2009 Elsevier Eng. Info. Inc.  
 File 6:NTIS 1964-2009/Jul W3  
 (c) 2009 NTIS, Intl Cpyrght All Rights Res  
 File 2:INSPEC 1898-2009/Jun W4  
 (c) 2009 The IET  
 File 24:CSA Life Sciences Abstracts 1966-2009/Jul  
 (c) 2009 CSA.  
 File 144:Pascal 1973-2009/Jul W1  
 (c) 2009 INIST/CNRS  
 File 136:BioEngineering Abstracts 1966-2007/Jan  
 (c) 2007 CSA.  
 File 35:Dissertation Abs Online 1861-2009/Jun  
 (c) 2009 ProQuest Info&Learning  
 File 65:Inside Conferences 1993-2009/Jul 09  
 (c) 2009 BLDSC all rts. reserv.  
 File 9:Business & Industry(R) Jul/1994-2009/Jul 09  
 (c) 2009 Gale/Cengage  
 File 16:Gale Group PROMT(R) 1990-2009/Jun 17  
 (c) 2009 Gale/Cengage  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2009/Jun 24  
 (c) 2009 Gale/Cengage  
 File 149:TGG Health&Wellness DB(SM) 1976-2009/Jun W1  
 (c) 2009 Gale/Cengage  
 File 621:Gale Group New Prod.Annou.(R) 1985-2009/Jun 03  
 (c) 2009 Gale/Cengage  
 File 635:Business Dateline(R) 1985-2009/Jul 10  
 (c) 2009 ProQuest Info&Learning  
 File 636:Gale Group Newsletter DB(TM) 1987-2009/Jun 17  
 (c) 2009 Gale/Cengage  
 File 15:ABI/Inform(R) 1971-2009/Jul 09  
 (c) 2009 ProQuest Info&Learning  
 File 47:Gale Group Magazine DB(TM) 1959-2009/Jun 29  
 (c) 2009 Gale/Cengage  
 File 441:ESPICOM Pharm&Med DEVICE NEWS 2009/Apr W1  
 (c) 2009 ESPICOM Bus.Intell.  
 File 129:PHIND(Archival) 1980-2009/May W5  
 (c) 2009 Informa UK Ltd

## Search Results

31/7/2 (Item 2 from file: 155)  
 DIALOG(R)File 155: MEDLINE(R)  
 (c) format only 2009 Dialog. All rights reserved.

13470624 PMID: 10538356

**Dynamic volume texture mapping and model deformation for visually realistic surgical simulation.**

Lin W T; Robb R A

Department of Biophysics, Mayo Foundation/Clinic, Rochester, Minnesota 55905, USA.

Studies in health technology and informatics ( NETHERLANDS ) 1999 , 62 p198-204 , ISSN: 0926-9630--Print **Journal Code:** 9214582

Publishing Model Print

**Document type:** Journal Article

**Languages:** ENGLISH

**Main Citation Owner:** NLM

**Record type:** MEDLINE; Completed

For computer assisted surgical simulation to be effective, objects in the simulated environment should respond to the user's actions dynamically with correct visual information. This includes dragging and cutting that cause changes in geometry, topology and appearance. Geometric object representation can be manipulated intuitively in real-time but does not preserve interior information. Volumetric data representation, on the other hand, preserves volume content but direct manipulation is compute-intensive. 3-D texture mapping provides an alternative in representing volumetric **information**. We **present** a surgical simulation system based on geometric models that allows **interactive** deformation and incision of objects while **displaying** correct volumetric **information** corresponding to these changes. This is accomplished by dynamic 3-D texture mapping. This method can be applied to anatomical data and patient CT and MR images to facilitate data/patient specific surgical simulations.

**Record Date Created:** 19990805

**Record Date Completed:** 19990805

31/7/21 (Item 6 from file: 2)  
 DIALOG(R)File 2: INSPEC  
 (c) 2009 The IET. All rights reserved.

05336321

**Title:** Computer simulation/ visualization software for human musculoskeletal system function

**Author(s):** Chao, E.Y.S.; Vanderploeg, M.J.

**Author Affiliation:** Biomech. Lab., Mayo Clinic/Mayo Foundation, Rochester, MN, USA

**Inclusive Page Numbers:** 11-15

**Publisher:** Union of Japanese Sci. Eng, Tokyo

**Country of Publication:** Japan

**Publication Date:** 1992

**Conference Title:** 11th Simulation Technology Conference

**Conference Date:** 24-25 June 1992

**Conference Location:** Kawasaki, Japan

**Number of Pages:** 310

**Language:** Japanese

**Document Type:** Conference Paper (PA)

**Treatment:** Practical (P)

**Abstract:** Describes the development of computer-based software for a three-dimensional geometric database of the human musculoskeletal system. Using a computer graphics workstation, a user of the

software **interactively displays detailed information** about the muscles, tendons, ligaments, bone and joint anatomy. This software enables a wide range of health care workers to visualize complex physiological data. In addition to geometric and visual realism, this software includes kinematic relationships which allow the calculation and display of the motion of the joints, muscles and tendons. This enables a user to interactively move joints or tendons and display the resulting motion of the surrounding tissues, as well as internal reactive forces and joint pressure distribution ( 0 refs.)

**Subfile(s):** A (Physics); C (Computing & Control Engineering)

**INSPEC Update Issue:** 1993-004

**Copyright:** 1993, IEE

31/3,K/52 (Item 9 from file: 148)

DIALOG(R)File 148: Gale Group Trade & Industry DB

(c) 2009 Gale/Cengage. All rights reserved.

07758625 **Supplier Number:** 16731716 (USE FORMAT 7 OR 9 FOR FULL TEXT )

**TAKE A WILD RIDE THROUGH THE HUMAN BODY - MINDSCAPE SHIPS 'HOW YOUR BODY WORKS' CD-ROM - WITH UNIQUE VIDEO EFFECTS**

PR Newswire , p0329SF007

March 29 , 1995

**Language:** ENGLISH

**Record Type:** FULLTEXT

**Word Count:** 731 **Line Count:** 00060

...Anatomy," while a click on the body model launches "System Tours."

Information within each module is categorized according to the twelve body systems.

The ultimate **interactive** authority, "How Your Body Works" **provides** straightforward **information** about the human body and related health issues, such as commonly prescribed and over-the-counter medications, basic first aid emergencies, and preventative health care...

31/3,K/62 (Item 1 from file: 635)

DIALOG(R)File 635: Business Dateline(R)

(c) 2009 ProQuest Info&Learning. All rights reserved.

0945113 99-09177

**Prototype VR tool gives 3-D spin to medical training**

Ostrow, Caren

Triangle Business Journal-Raleigh NC ( Raleigh , NC , US ) , V 13 N 40 p 34

**Publication Date:** 980529

**Word Count:** 702

**Dateline:** Research Triangle Park, NC, US, South Atlantic

**Text:**

...a dramatic, anguished voice responds promptly to your diagnostic inquiries.

Welcome to the Virtual Medical Trainer.

Developed as a trauma patient simulator for pre-hospital **emergency care**, the prototype features an **interactive** body and menus that guide students through the various stages of diagnosis and treatment.

"We're developing a family of virtual medical trainers," said Paul...

?

**RESULT LIST**

25 results found in the Worldwide database for:

**interactiv\* body treat\*** in the title or abstract AND **a61** as the IPC classification

(Results are sorted by date of upload in database)

**16 Physio/energetic therapeutic method and interactive monitoring device**

Inventor: BLUM JEANNE ELIZABETH [US]

Applicant: BLUM, JEANNE ELIZABETH

EC: A61H39/00

IPC: A61H39/00; A61H39/00; (IPC1-7): A61B19/00

Publication info: US6152140 (A) — 2000-11-28

**17 PHYSICAL THERAPY APPARATUS HAVING AN INTERACTIVE INTERFACE, AND METHOD OF CONFIGURING SAME**

Inventor: POHL JEFF K [US] ; JOHNSON DAVID Applicant: CHATTANOOGA GROUP INC [US] ;

A [US] (+1)

POHL JEFF K [US] (+2)

EC: A61H23/02P; A61N1/08; (+3)

IPC: A61H23/02; A61N1/08; A61N1/32; (+9)

Publication info: WO9700707 (A1) — 1997-01-09

**18 METHOD OF OPTIMIZING RADIOTHERAPY SYSTEM**

Inventor: KATO CHIAKI ; SANO KOICHI

Applicant: TECH RES ASS MED & WELFARE APP

EC:

IPC: A61B5/00; A61N5/10; G06F19/00; (+11)

Publication info: JP7275382 (A) — 1995-10-24

**19 Thermally-interactive backboard**

Inventor: TRUGLIO FRANCIS G [US]

Applicant: TRUGLIO, FRANCIS G

EC: A61F7/02

IPC: A61F7/02; A61B19/00; A61F7/00; (+4)

Publication info: US5433741 (A) — 1995-07-18

**20 No title available**

Inventor: FURUBIKI TAKAAKI

Applicant: HITACHI MEDICAL CORP

EC:

IPC: A61N5/10; A61N5/10; A61N5/10; (+2)

Publication info: JP5337208 (A) — 1993-12-21

**21 DOOL**

Inventor: DANIERU JIEI ROUA ; HOWAADO JIEI Applicant: ROUA TOIZU INC IRINA

EC: A63H3/36

IPC: G09B23/28; A63H3/36; A61F7/02; (+6)

Publication info: JP4340582 (A) — 1992-11-26

**22 Electrical neuromuscular stimulation device**

Inventor: BRODARD ROLAND [CH]

Applicant: STIWELL S A [CH]

EC: A61N1/36E2

IPC: A61N1/32; A61N1/36; A61N1/32; (+2)

Publication info: US5285781 (A) — 1994-02-15

**23 ELECTRICAL NEUROMUSCULAR STIMULATION DEVICE**

Inventor: BRODARD ROLAND [CH]

Applicant: STIWELL S A [CH]

EC:

IPC: A61N1/36; A61N1/36; (IPC1-7): A61N1/36

Publication info: CA2043109 (A1) — 1991-11-27

**24 APPARATUS FOR FIXING ARTIFICIAL TOOTH ON HUMAN JAW**

Inventor: NIKORA RAUKUSU

Applicant: NIKORA RAUKUSU

EC: A61C8/00F; A61C8/00G; (+2)

IPC: A61C8/00; A61C8/00; (IPC1-7): A61C8/00

**Publication info:** JP2264654 (A) — 1990-10-29

**25 Patient interactive stimulator.**

**Inventor:** ENGLE WILLIAM R

**Applicant:** MEDTRONIC INC [US]

**EC:** A61M5/142P10; A61N1/08; (+1)

**IPC:** A61M5/142; A61N1/08; A61N1/39; (+4)

**Publication info:** EP0038080 (A2) — 1981-10-21

---

Data supplied from the **esp@cenet** database — Worldwide



## FIRST AID SUPPORT SYSTEM

**Publication number:** JP2002290626 (A)

**Publication date:** 2002-10-04

**Inventor(s):** SUZUKI DAISUKE

**Applicant(s):** TOSHIBA MEDICAL SYS CO LTD; TOKYO SHIBAURA ELECTRIC CO

**Classification:**

- international: G06Q50/00; G06F17/30; G08B25/01; G08B25/04; G08B25/10; H04M11/04; G06Q50/00; G06F17/30; G08B25/01; G08B25/10; H04M11/04; (IPC1-7): H04M11/04; G06F17/30; G06F17/60; G08B25/01; G08B25/04; G08B25/10

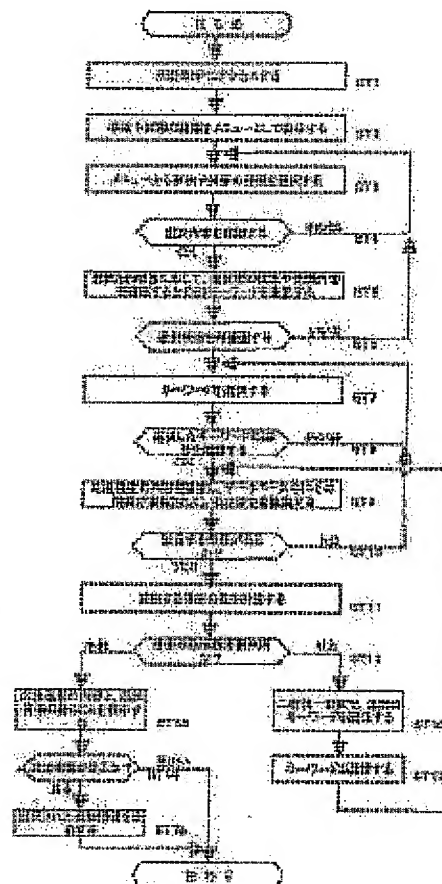
- European:

**Application number:** JP20010087048 20010326

**Priority number(s):** JP20010087048 20010326

### Abstract of JP 2002290626 (A)

**PROBLEM TO BE SOLVED:** To easily acquire information related with first aids to the victims of accidents or disasters at a site, where its takes a long time until an ambulance or the like arrives. **SOLUTION:** This system is provided with a database placed on a server on the Internet in which information related with first aids is collected, corresponding to the situations of victims and portable terminal equipment for performing access to the database, so that information related with the first aids to the victims can be acquired at the portable-terminal equipment side by exchanging information, in an interactive form between the database and the potable terminal equipment. Thus, it is possible for even a person who lacks medical knowledge to give first aids to the victims, at a site where its takes a long time until ambulances arrive.



Data supplied from the esp@cenet database — Worldwide

## CARE INFORMATION BASE WITH THE USE OF ROBOT

**Publication number:** JP2006172410 (A)

**Publication date:** 2006-06-29

**Inventor(s):** KUMADA AKIO; KANAZAWA YASUNORI; MIMURA JITSUO; OTOMO YOSHIRO

**Applicant(s):** PIEZO TEC KK; OTOMO YOSHIRO

**Classification:**

- international: G08B25/00; G08B25/04; G08B25/08; H04M11/00; H04M11/04; G08B25/00; G08B25/01; G08B25/08; H04M11/00; H04M11/04

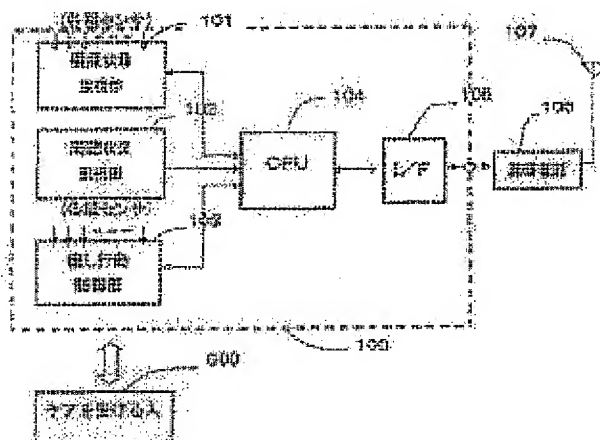
- European:

**Application number:** JP20040382594 20041217

**Priority number(s):** JP20040382594 20041217

### Abstract of JP 2006172410 (A)

**PROBLEM TO BE SOLVED:** To provide a robot, which can generally naturally grasp a sudden change in the living conditions, health or personal abnormalities or the like of a staying-alone-person who receives care, which can immediately inform the above abnormalities to a care worker or to an associated place such as a hospital, first aid center, fire department, police, care service company or the like when needed, or which has the function of an information base such as reporting the grasped information every time when required by the care worker, and at the same time, has an effect of healing the person who receives care. ; **SOLUTION:** An intelligent robot designed for healing, which is freely accepted in daily life, is used as an information base for caretakers such as family members. Consequently, the intelligent robot is always monitoring by using eyes, ears, a camera of a nose, microphone, and bad smell sensor. By providing an interactive function, the robot can come into contact with the staying-alone-person without a sense of incongruity. In addition to health information such as pulse, temperature, blood pressure or the like, environmental information is also collected and recorded, which are sent out to the other party based on the degree of emergency, thus the robot is used as a care information base by comprising the above function. ; **COPYRIGHT:** (C) 2006,JPO&NCIP



Data supplied from the esp@cenet database — Worldwide

# PHYSICAL THERAPY APPARATUS HAVING AN INTERACTIVE INTERFACE, AND METHOD OF CONFIGURING SAME

**Publication number:** WO9700707 (A1)

**Publication date:** 1997-01-09

**Inventor(s):** POHL JEFF K [US]; JOHNSON DAVID A [US]; DUNLAY EDWARD R [US]

**Applicant(s):** CHATTANOOGA GROUP INC [US]; POHL JEFF K [US]; JOHNSON DAVID A [US]; DUNLAY EDWARD R [US]

**Classification:**

- **international:** A61H23/02; A61N1/08; A61N1/32; A61N1/34; A61N1/36; A61H23/02; A61N1/08; A61N1/32; A61N1/36; (IPC1-7): A61N1/08; A61N1/18; A61N7/00

- **European:** A61H23/02P; A61N1/08; A61N1/32P; A61N1/34; A61N1/36

**Application number:** WO1996US10633 19960620

**Priority number(s):** US19950494095 19950623

**Also published as:**

US5578060 (A)  
ES2161202 (T1)  
ES2161202 (T3)  
EP0777510 (A1)  
EP0777510 (B1)

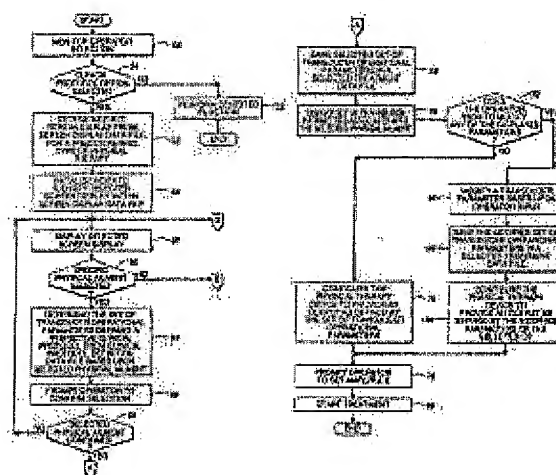
more >>

**Cited documents:**

US5413550 (A)  
NL9102098 (A)  
WO9014128 (A1)

## Abstract of WO 9700707 (A1)

A reconfigurable physical therapy apparatus and a method of providing operator-selected stimuli to a patient are provided. The apparatus preferably has a physical therapy applicator including a transducer for applying a therapeutic treatment to a patient, and a memory for storing identification data representative of a plurality of physical ailments for each of a plurality of human body areas and a set of transducer operational parameters associated with each predetermined physical ailment and each predetermined body area. The apparatus also has an ailment display screen responsive to the memory device for displaying at least one of the identification data representative of a plurality of physical ailments which are associated with at least one of the identified human body areas. An ailment selector is positioned in electrical communication with at least the memory device and being responsive to operator selection of one of the identified physical ailments which are associated with human body areas for obtaining the associated transducer operational parameters. The apparatus further has a transducer reconfigurer positioned in electrical communication with the transducer of the applicator and being responsive to the ailment selector for reconfiguring the transducer to provide therapeutic treatment to the identified body part according to the obtained transducer operational parameters.



Data supplied from the esp@cenet database — Worldwide

**RESULT LIST**

15 results found in the Worldwide database for:  
**interactiv\* anatom\* treat\*** in the title or abstract  
 (Results are sorted by date of upload in database)

- 1 Methods for Volumetric Contouring with Expert Guidance**  
 Inventor: CHAO HUI-MIN [US] ; CHAO DAVID [US] (+1)  
 EC: G06K9/34 IPC: G06K9/00; G06K9/00  
 Publication info: US2007280521 (A1) — 2007-12-06
- 2 Realtime interactive data analysis management tool**  
 Inventor: BECKETT BOB L GONZALEZ MARCELL [US]  
 EC: IPC: A61B19/00; G06F19/00; G06Q50/00; (+3)  
 Publication info: CN101032423 (A) — 2007-09-12
- 3 Visual method for virtual incising tubular organ**  
 Inventor: CAO LIJI LIANG [CN]  
 EC: IPC: G06T11/00; G06T11/00  
 Publication info: CN101013506 (A) — 2007-08-08
- 4 ANATOMICAL PAIN ELIMINATION SYSTEM AND METHODS FOR DELIVERING PERSONALIZED ANATOMICAL THERAPY SESSIONS**  
 Inventor: LEMME JOHN P [US]  
 EC: A63B69/00; G06F19/00M3T IPC: G06F19/00; A63B71/00; G06F19/00; (+1)  
 Publication info: US2007179816 (A1) — 2007-08-02
- 5 REALTIME INTERACTIVE DATA ANALYSIS MANAGEMENT TOOL**  
 Inventor: BECKETT BOB L ; GONZALEZ MARCELLA A (+2)  
 EC: G06T7/00B2; G06T17/40 IPC: A61B6/03; A61B6/03  
 Publication info: JP2007144175 (A) — 2007-06-14
- 6 Dedicated display for processing and analyzing multi-modality cardiac data**  
 Inventor: DESH VLADIMIR [US] ; O'DONNELL THOMAS [US]  
 EC: G06T3/00A; G06F19/00M3E; (+1) IPC: G06K9/00; G06K9/00  
 Publication info: US2006239524 (A1) — 2006-10-26
- 7 METHOD FOR TREATING PRESBYOPIA BY INDUCING CHANGES IN THE CORNEAL POWER AND PHYSIOLOGY.**  
 Inventor: ALBERTO OSIO SANCHO [MX]  
 EC: G02C7/04 IPC: A61F2/00; A61F9/00; A61F9/007; (+10)  
 Publication info: MXPA03011987 (A) — 2005-06-23
- 8 MRI display interface for medical diagnostics and planning**  
 Inventor: SCHMAINDA KATHLEEN [US] ; PROST ROBERT W [US] (+2)  
 EC: A61B5/055 IPC: A61B5/05; A61B5/055; A61B5/05; (+2)  
 Publication info: US2005273001 (A1) — 2005-12-08
- 9 Computer aided treatment planning**  
 Inventor: LIANG ZHENGRONG [US] ; LI BIN [US]  
 Applicant: LIANG ZHENGRONG, ; LI BIN, (+6)

(+6)

EC: G06T17/40; A61B19/00N; (+3) IPC: A61B19/00; G06F19/00; G06T15/00; (+7)

Publication info: US2004015070 (A1) — 2004-01-22

**10 SYSTEM AND METHOD FOR COMPUTER AIDED TREATMENT PLANNING**

Inventor: LIANG ZHENGRONG [US]; LI BIN [US] Applicant: UNIV NEW YORK [US]; LIANG ZHENGRONG [US] (+7)

EC: G06F19/00M5R; A61B19/00N; (+2) IPC: A61B19/00; G06F19/00; A61B10/00; (+10)

Publication info: WO0156491 (A2) — 2001-08-09

**11 PLANNING PROCEDURE FOR IN-VIVO MINIMUM INVASION TREATMENT**

Inventor: YANOF JEFFREY H; KLAHR PAUL Applicant: MARCONI MEDICAL SYS INC (+2)

EC: A61B17/88P; A61B19/00N; (+1) IPC: A61B5/055; A61B6/03; A61B8/00; (+17)

Publication info: JP2002058751 (A) — 2002-02-26

**12 System and method for mapping a surface**

Inventor: SACHDEVA ROHIT [US]; RUBBERT RUDGER [DE] (+2) Applicant: ORAMETRIX INC [US]

EC: A61C7/00; A61C7/14P IPC: A61C7/00; A61C7/14; A61C9/00; (+5)

Publication info: US6532299 (B1) — 2003-03-11

**13 STIMULATION OF SPECIFIC POINTS OF PLANTS**

Inventor: MALY OTO [SK]

Applicant: MALY OTO [SK]

EC: A01G7/04; A01N25/00

IPC: A01G7/04; A01N25/00; A01G7/04; (+3)

Publication info: WO9923877 (A1) — 1999-05-20

**14 AN INTERACTIVE SYSTEM USING A GRAPHICAL INTERFACE FOR ASSISTING MEDICAL PROFESSIONALS IN THE DIAGNOSIS, TREATMENT AND MANAGEMENT OF SURGICAL AND TRAUMA PATIENTS**

Inventor: SIEGEL JOHN H; MARSH PHILIP

Applicant: UNIV NEW JERSEY MED [US]

EC: G06F19/00M5R1

IPC: G06F19/00; G06F19/00; (IPC1-7): G06F19/00; (+1)

Publication info: WO9619774 (A1) — 1996-06-27

**15 Patient-user interactive psychotherapy apparatus and method**

Inventor: PUTNAM MARK D [US]

Applicant: PUTNAM, MARK D

EC: A61B3/032; A61B5/16; (+1)

IPC: A61B3/032; A61B5/16; A61H5/00; (+4)

Publication info: US5619291 (A) — 1997-04-08

---

Data supplied from the esp@cenet database — Worldwide

## MEDICAL ADVICE EXPERT

**Publication number:** WO03067503 (A2)

**Publication date:** 2003-08-14

**Inventor(s):** HELGASON IVAR S; SKULASON HALLDOR; LOVE THORVAROUR JON; SCHOPKA JULIUS H

**Applicant(s):** DECODE GENETICS EHF [IS]

**Classification:**

- international: **G06F19/00; G06F19/00; (IPC1-7): G06F19/00**


- European: **G06F19/00M5R**


**Application number:** WO2003IB00224 20030123

**Priority number(s):** US20020071787 20020207


**Also published as:**


 WO03067503 (A3)


 US2003146942 (A1)


 AU2003201147 (A1)


**Cited documents:**

 WO9619774 (A1)

 WO0120488 (A1)

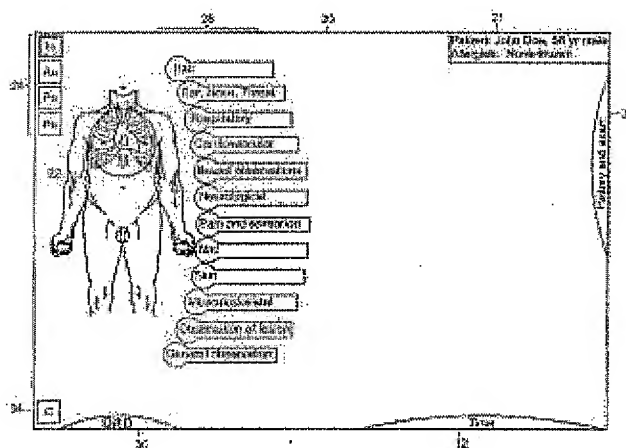
 WO0242875 (A2)

 DE4122143 (A1)

 XP000569474 (A)

### Abstract of WO 03067503 (A2)

A graphical user interface (GUI) presents to a clinician/user coded medical information in at least one logical hierarchy, and accepts selections of the presented information made by the user. An electronic medical record generator records user selections into an electronic medical record. The logical hierarchy may be organized, for example, by physiological system, or by type of examination. The GUI includes an image of a body, from which a user can select a body part for examination, examination method selection controls, and one or more sets of buttons optimized for a touchscreen. Each button has a bulbous portion and a narrower label portion. The bulbous portion is large enough to be easily contacted with the user's finger without the user's finger contacting an adjacent button. The narrow label portion protrudes from the bulbous portion and can contain a text label. The controls can thus be lined up alternately in opposite orientations so that they are tightly stacked. A set of controls/buttons can be for indicating and allowing selection of systems of observation. Another set of buttons can be for indicating and allowing selection of observations. Each of these controls can correspond to a medical coding system code for a medical observation and can contain a descriptive label. The system can further comprise an expert system that suggests tests based on user selections. Suggested tests can be highlighted by the graphical user interface.



Data supplied from the esp@cenet database — Worldwide